

# Sintering 3D printing head

<b>Title</b>	Sintering 3D printing head
<b>Basic technology outline</b>	<p>3D printing innovation Innovative three dimensional powder material print head Allows to process composite waste plastic powder materials Innovation with impact on lowering price of the technology, operating costs and input materials as well as broadening the scope of the input materials</p>
<b>Technology deployment</b>	<p>Parts prototypes special special shapes low series Suitable for manufacturing a broad range of products from composite materials Allows to produce products made of powder compounds containing wood, granite and other additives Economacally convenient solution for 3D printing of lower series, prototyppes and special shaped parts</p>

<p><b>Advantages over currently used solutions</b></p>	<p>Final products price of the technology price of materials</p> <p>Final products printing (not models as common 3D printers do)</p> <p>Allows sintering in local nitrogen atmosphere (nitrogen is pre-heated for increase in effectivity of sintering)</p> <p>Low acquisition price of the technology and service parts</p> <p>Low operation costs (low input power)</p> <p>Low price of input materials (use of waste materials from plastic products manufacturing)</p> <p>Low friction index of printed products</p> <p>Option of installation of common 3D powder bed &amp; inkjet head printers</p>
<p><b>Current status of technology</b></p>	<p>Patent protected technology prototype utility model application filed (5031-2016)</p> <p>Successfully tested prototype in operation conditions</p>
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